SAFETY DATA SHEET

Date of issue: 09/08/2016 Date of revision: 09/08/2016 Version no.: 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Product name: Marine Care Test
Kit Product code: R21525

1.2 Relevant identified uses of the substance or mixture and uses advised against
Aquarium water quality test kit.

1.3 Details of the supplier of the safety data sheet
Red Sea Fish Pharm Ltd
Free Trade Industrial
Zone Eilat 88000
Israel
Tel: +972-9-9567107

E-mail address of person responsible for this SDS: sharonr@redseafish.co.il

1.4 Emergency telephone number
Emergency telephone number (with hours of operation): N/A

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200 (OSHA HCS):

Ammonia test kit

Reagent A	Reagent B	Reagent C
Not classified	Met. Corr. 1 H290 Skin Corr. 1A H314 Aquatic Acute 2 H401	Not classified

Nitrate/Nitrite test kit

Reagent A	Reagent B	Reagent C
Met. Corr. 1 H290 Skin Corr. 1A H314	Skin Sens. 1 H317 Aquatic Chronic 2 H411	Not classified

pH/Alkalinity test kit

pH indicator	KH indicator
Not classified	Acute Tox. 4 H302

Classification in accordance to Regulation (EC) No. 1272/2008 (CLP):

Ammonia test kit

Reagent A	Reagent B	Reagent C
Not classified	Met. Corr. 1 H290 Skin Corr. 1A H314 EUH031	Not classified

Nitrate/Nitrite test kit

Reagent A	Reagent B	Reagent C
Met. Corr. 1 H290 Skin Corr. 1A H314	Skin Sens. 1 H317 Aquatic Chronic 2 H411	Not classified

pH/Alkalinity test kit

pH indicator	KH indicator

Not classified	Acute Tox. 4 H302

See section 16 for the full text of the H-statements declared above.

2.2 Label elements

Labelling according to 29 CFR 1910.1200 (OSHA HCS)

Ammonia test kit- Reagent A

Hazard pictogram(s): Not required Signal word: Not required Hazard statement(s): Not required
Precautionary Statement(s): Not required

Ammonia test kit- Reagent B

Hazard pictogram(s):

Signal word: Danger

Hazard statement(s):
H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage. H401: Toxic to aquatic life.

Precautionary Statement(s):
P102: Keep out of reach of children.
P234: Keep only in original packaging.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331 + P310: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON Center or doctor/physician.
P303 + P361 + P353 + P310: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Immediately call a POISON Center or doctor/physician.

P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON Center or doctor/physician.
P363: Wash contaminated clothing before reuse.
P273: Avoid release to the environment.

Ammonia test kit- Reagent C

Hazard pictogram(s): Not required
Signal word: Not required
Hazard statement(s): Not required
Precautionary Statement(s): Not required

Nitrate/Nitrite test kit - Reagent A

Hazard pictogram(s):

Signal word: Danger

Hazard statement(s):
H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage.

Precautionary Statement(s):
P102: Keep out of reach of children.
P234: Keep only in original container.
P280: Wear protective gloves/ protective clothing/eye protection/face protection.
P301 + P330 + P331 + P310: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON Center or doctor/physician.
P303 + P361 + P353 + P310: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower. Immediately call a POISON Center or doctor/physician.
P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON Center or doctor/physician.
P363: Wash contaminated clothing before reuse.

Nitrate pro test kit - Reagent B

Hazard pictogram(s):

Signal word: Warning

Hazard statement(s):
H317: May cause an allergic skin reaction.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):
P102: Keep out of reach of children.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
P280: Wear protective gloves / protective clothing/eye protection / face protection.
P273: Avoid release to the environment.

Nitrate pro test kit - Reagent C

Hazard pictogram(s): Not required
Signal word: Not required
Hazard statement(s): Not required
Precautionary Statement(s): Not required

pH/Alkalinity test kit - pH indicator

Hazard pictogram(s): Not required
Signal word: Not required
Hazard statement(s): Not required
Precautionary Statement(s): Not required

pH/Alkalinity test kit - KH indicator

Hazard pictogram(s):

Signal word: Warning

Hazard statement(s):
H302: Harmful if swallowed.

Precautionary Statement(s):
P102: Keep out of reach of children.
P270: Do not eat, drink or smoke when using this product.
P330: Rinse mouth.

Labelling in accordance with Regulation 1272/2008 (CLP)

Ammonia test kit- Reagent A

Hazard pictogram(s): Not required
Signal word: Not required
Hazard statement(s): Not required
Precautionary Statement(s): Not required

Ammonia test kit- Reagent B

Hazard pictogram(s):

Signal word: Danger

Hazard statement(s):
H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage.

Precautionary Statement(s):
P102: Keep out of reach of children.
P234: Keep only in original container.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331 + P310: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON Center or doctor/physician.
P303 + P361 + P353 + P310: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. Immediately call a POISON Center or doctor/physician.
P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON Center or doctor/physician.
P363: Wash contaminated clothing before reuse.

Supplemental Hazard information (EU):
EUH031: Contact with acids liberates toxic gas.

Ammonia test kit- Reagent C

Hazard pictogram(s): Not required
Signal word: Not required
Hazard statement(s): Not required
Precautionary Statement(s): Not required

Nitrate/Nitrite test kit - Reagent A

Hazard pictogram(s):

Signal word: Danger

Hazard statement(s):
H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage.

Precautionary Statement(s):
P102: Keep out of reach of children.
P234: Keep only in original container.
P280: Wear protective gloves/ protective clothing/eye protection/face protection.
P301 + P330 + P331 + P310: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON Center or doctor/physician.
P303 + P361 + P353 + P310: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower. Immediately call a POISON Center or doctor/physician.
P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON Center or doctor/physician.
P363: Wash contaminated clothing before reuse.

Nitrate pro test kit - Reagent B

Hazard pictogram(s):

Signal word: Warning

Hazard statement(s):
H317: May cause an allergic skin reaction.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):
P102: Keep out of reach of children.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
P280: Wear protective gloves / protective clothing/eye protection / face protection.
P273: Avoid release to the environment.

Nitrate pro test kit - Reagent C

Hazard pictogram(s): Not required
Signal word: Not required
Hazard statement(s): Not required
Precautionary Statement(s): Not required

pH/Alkalinity test kit - pH indicator

Hazard pictogram(s): Not required

Signal word: Not required

Hazard statement(s): Not required
Precautionary Statement(s): Not required

pH/Alkalinity test kit - KH indicator

Hazard pictogram(s):

Signal word: Warning

Hazard statement(s):
H302: Harmful if swallowed.

Precautionary Statement(s):
P102: Keep out of reach of children.
P270: Do not eat, drink or smoke when using this product. P330: Rinse mouth.

2.3 Other hazard

Ammonia test kit - Reagent B
Hazards not otherwise classified (HNOC) or not covered by GHS: Contact with acids liberates toxic gas.

SECTION 3: Composition/information on ingredients

3.2 Mixtures:

Ammonia test kit - Reagent A

Substance name	Identifiers	%	CLP Classification	OSHA HCS Classification
Sodium salicylate	CAS number: 54-21-7 EC number: 200-198-0	5-10	Acute Tox. 4 H302 Eye Irrit. 2 H319	Acute Tox. 4 H302 Eye Irrit. 2A H319

Ammonia test kit - Reagent B

Substance name	Identifiers	%	CLP Classification	OSHA HCS Classification
Sodium hypochlorite (7% Cl_2 Sol)	CAS number: 7681-52-9 EC number: 231-668-3	5-10	Skin Corr. 1B H314 Aquatic Acute 1 H400 EUH031	Skin Corr. 1B H314 Aquatic Acute 1 H400
Sodium hydroxide	CAS number: 1310-73-2 EC number: 215-185-5	5-10	Skin Corr. 1A H314	Skin Corr. 1A H314

Ammonia test kit - Reagent C

Substance name	Identifiers	%	CLP Classification	OSHA HCS Classification
Sodium nitroprusside	CAS number: 14402-89-2 EC number: 238-373-9	<1	Acute Tox. 3 H301	Acute Tox. 3 H301

Nitrate/Nitrite Test Kit - Reagent A

Substance name	Identifiers	%	CLP Classification	OSHA HCS Classification
Sulphuric acid	CAS number: 7664-93-9 EC number: 231-639-5	10-25	Skin Corr. 1A H314	Skin Corr. 1A H314

Nitrate/Nitrite Test Kit - Reagent B

Substance name	Identifiers	%	CLP Classification	OSHA HCS Classification
Sulphanilic acid	CAS number: 121-57-3 EC number: 204-482-5	1-5	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2A H319 Aquatic Acute 3 H402
Zinc powder (<45µm)	CAS number: 7440-66-6 EC number: 231-175-3	5-10	Aquatic Acute 1 H400 Aquatic Chronic 1 H410	Aquatic Acute 1 H400 Aquatic Chronic 1 H410

Nitrate/Nitrite Test Kit - Reagent C

No components need to be reported according to the applicable regulations.

pH/Alkalinity test kit - pH indicator

Substance name	Identifiers	%	CLP Classification	OSHA HCS Classification
Ethanol	CAS number: 64-17-5 EC number: 200-578-6	<1	Flam. Liq. 2 H225	Flam. Liq. 2 H225
Bromothymol blue	CAS number: 76-59-5 EC number: 200-971-2	<0.1	Not available	Not available
Sodium hydroxide	CAS number: 1310-73-2 EC number: 215-185-5	<0.1	Skin Corr. 1A H314	Skin Corr. 1A H314
Mercury chloride	CAS number: 7487-94-7 EC number: 231-299-8	<0.01	Acute Tox. 2 H300 Skin Corr. 1B H314 Muta. 2 H341 Repr. 2 H361f STOT RE 1 H372 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	Acute Tox. 2 H300 Skin Corr. 1B H314 Muta. 2 H341 Repr. 2 H361 STOT RE 1 H372 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

pH/Alkalinity test kit - KH indicator

Substance name	Identifiers	%	CLP Classification	OSHA HCS Classification
Ethylene glycol	CAS number: 107-21-1 EC number: 203-473-3	50-75	Acute Tox. 4 H302	Acute Tox. 4 H302
Methyl red	CAS number: 493-52-7 EC number: 207-776-1	<1	Not available	Not available
Bromocresol green	CAS number: 76-60-8 EC number: 200-972-8	<1	Not available	Not available
Hydrochloric acid	CAS number: 7647-01-0 EC number: 231-595-7	<1	Skin Corr. 1B H314 STOT SE 3 H335	Skin Corr. 1B H314 STOT SE 3 H335

See section 16 for the full text of the H-statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eyes contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Get medical attention.

Inhalation: Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

Ingestion: **Do not induce vomiting.** If victim is conscious, wash mouth thoroughly with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See section 2.2 (Label elements) and/or section 11 (Toxicological information) for the most

important known symptoms and effects.

4.3 Indication of any immediate medical attention and special treatment needed
Not available

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
Suitable: Use extinguishing media suitable to the surroundings such as, dry chemical powder, chemical foam, water spray and carbon dioxide.
Not suitable: N/A

5.2 Special hazards arising from the substance or mixture
The reagents tend to be water based and are not combustible or explosive. When heated sufficiently, product may decompose to form smoke and toxic fumes, gases or vapours that may cause dizziness. Toxic fumes may be evolved on thermal decomposition.

5.3 Advice for firefighters
Special protective equipment for fire fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Ventilate area of spill.

6.2 Environmental precautions
Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and materials for containment and cleaning up
For liquid: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.
For solid: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

6.4 Reference to other sections
See Section 1 for emergency contact information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapors, mist or gas. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures.

7.2 Conditions for safe storage, including any incompatibilities
Storage: Keep only in original container. Avoid large temperature changes and store in a cool, dry, well ventilated environment and away from direct sunlight. Keep containers closed when not in use. Keep away from acids, alkalis, oxidizing compounds and metals.

7.3 **Specific end use(s):** N/A

SECTION 8: Exposure control/personal protection

8.1 Control parameters

Substance name	Occupational exposure limits
Sodium hydroxide	ACGIH-TLV 2 mg/m^3 (CEIL) OSHA-PEL 2 mg/m^3 (TWA) NIOSH-REL 2 mg/m^3 (CEIL), 15M
Sulphuric acid	ACGIH-TLV 0.2 mg/m^3 (TWA), thoracic OSHA-PEL 1 mg/m^3 (TWA) NIOSH-REL 1 mg/m^3 (TWA)
Mercury chloride	ACGIH-TLV 0.025 mg(Hg)/m^3 (TWA), skin NIOSH-REL 0.1 mg/m^3 (CEIL), skin
Ethylene glycol	ACGIH-TLV 100 mg/m^3 (CEIL), aerosol
Hydrochloric acid	ACGIH-TLV 2 ppm (CEIL) OSHA-PEL 5 ppm (CEIL) NIOSH-REL 5 ppm (CEIL)

8.2 Exposure controls

Engineering measures

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Person protective measures

Respiratory protection: Wear appropriate respirator when ventilation is inadequate. Be sure to use an approved/certified equipment or equivalent equipment.

Hand protection: Wear protective gloves to prevent skin exposure.

Eye protection: Wear protective safety glasses.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

During normal non-professional use of the chemical kit no personal protective equipment is required. However, in case of manufacture or spillage, use as appropriate to the size of the spill.

Environmental exposure controls: Not available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Ammonia pro test kit

	Reagent A	Reagent B	Reagent C
Appearance:	white granular powder	colorless liquid	amber liquid
Odour:	pungent	none	none
Odour threshold:	N/A	N/A	N/A
pH:	N/A	13	N/A
Melting point/Freezing point:	N/A	N/A	N/A
Initial boiling point/boiling range:	N/A	N/A	N/A
Flash point:	N/A	N/A	N/A
Evaporation rate:	N/A	N/A	N/A
Flammability:	non-combustible	non-combustible	non-combustible

Upper/lower flammability or explosive limits:	N/A	N/A	N/A
Vapor pressure:	N/A	N/A	N/A
Vapor density:	N/A	N/A	N/A
Relative Density:	N/A	N/A	N/A
Solubility(ies):	completely soluble in water to give an acidic solution	completely soluble in water to give an acidic solution	completely soluble in water to give an acidic solution
Partition coefficient Octanol/Water:	N/A	N/A	N/A
Auto-ignition temperature:	N/A	N/A	N/A
Decomposition temperature:	N/A	N/A	N/A
Viscosity:	N/A	N/A	N/A
Explosive properties:	N/A	N/A	N/A
Oxidizing properties:	N/A	N/A	N/A

Nitrate/Nitrite test kit

	Reagent A	Reagent B	Reagent C
Appearance:	clear liquid	grey powder	white powder
Odour:	none	none	none
Odour threshold:	N/A	N/A	N/A
pH:	N/A	N/A	N/A
Melting point/Freezing point:	N/A	N/A	N/A
Initial boiling point/boiling range:	N/A	N/A	N/A
Flash point:	N/A	N/A	N/A
Evaporation rate:	N/A	N/A	N/A
Flammability:	non-combustible	non-combustible	non-combustible
Upper/lower flammability or explosive limits:	N/A	N/A	N/A
Vapor pressure:	N/A	N/A	N/A
Vapor density:	N/A	N/A	N/A
Relative Density:	N/A	N/A	N/A
Solubility(ies):	completely soluble to give an acidic solution	completely soluble to give an neutral solution	completely soluble to give an acidic solution
Partition coefficient Octanol/Water:	N/A	N/A	N/A
Auto-ignition temperature:	N/A	N/A	N/A
Decomposition temperature:	N/A	N/A	N/A
Viscosity:	N/A	N/A	N/A
Explosive properties:	N/A	N/A	N/A
Oxidizing properties:	N/A	N/A	N/A

pH/Alkalinity test kit

	KH indicator	pH indicator
Appearance:	light yellow/orange clear liquid	dark green liquid
Odour:	none	none
Odour threshold:	N/A	N/A
pH:	N/A	N/A
Melting point/Freezing point:	N/A	N/A
Initial boiling point/boiling range:	N/A	N/A
Flash point:	N/A	N/A

	KH indicator	pH indicator
Evaporation rate:	N/A	N/A
Flammability:	non-combustible	non-combustible
Upper/lower flammability or explosive limits:	N/A	N/A
Vapor pressure:	N/A	N/A
Vapor density:	N/A	N/A
Relative Density:	N/A	N/A
Solubility(ies):	completely soluble in water to give an acidic solution	completely soluble in water to give an acidic solution
Partition coefficient Octanol/Water:	N/A	N/A
Auto-ignition temperature:	N/A	N/A
Decomposition temperature:	N/A	N/A
Viscosity:	N/A	N/A
Explosive properties:	N/A	N/A
Oxidizing properties:	N/A	N/A

9.2 Other information
Not available

SECTION 10: Stability and reactivity

10.1 Reactivity
Not available.

10.2 Chemical stability
The product is stable under normal handling and storage conditions described in Section 7.

10.3 Possibility of hazardous reactions
Hazardous reactions are not expected, under normal conditions of storage and use.

10.4 Conditions to avoid
Long term exposure to heat and direct sunlight.

10.5 Incompatible materials
Acids, alkalis, oxidising compounds and metals. May produce heat.

10.6 **Hazardous decomposition products**
Other decomposition products: not available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Product/substance name	Test	Species	Dose
Sodium salicylate	LD50, Oral	Rat	930 mg/kg
Sodium nitroprusside	LD50, Oral	Rat	99 mg/kg
Sulphuric acid	LD50, Oral LC50, Inhalation	Rat	2140 mg/kg 510 mg/m^3/2H
Sulphanilic acid	LD50, Oral	Rat	12300 mg/kg

Product/substance name	Test	Species	Dose
Mercury chloride	LD50, Oral	Rat	1 mg/kg
Ethylene glycol	LD50, Oral LD50, Administration onto the skin	Rat Rabbit	4700 mg/kg 9530 µL/kg
Hydrochloric acid	LC50, Inhalation	Rat	3700 ppm/30M
Copper sulphate pentahydrate	LD50, Oral	Rat	300 mg/kg
Sulphanilamide	LD50, Oral	Rat	3900 mg/kg

Skin corrosion/irritation: Not available

Serious eye damage/irritation: Not available

Respiratory or skin sensitization: No compounds present in the reagents have been identified as having sensitising properties.

Germ cell mutagenicity: Not available

Carcinogenicity:
Sulphuric acid
ACGIH A2-Suspected human carcinogen
IARC Group 1 - Carcinogenic to humans
NTP 1 - Known to be human carcinogen

Reproductive toxicity: Not available

Specific target organ toxicity (single exposure): Not available

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: Not available

Other effects:
Ammonia pro test kit
Reagent C: Contains sodium nitroprusside and if ingested could cause headaches, nausea and in-coordination.
Reagent A: Inhalation of spray or mist will irritate the respiratory system and ingestion will damage the linings of the mouth, throat and gastro-intestinal tract. Inhalation of spray or mist will irritate the respiratory system and ingestion may damage the linings of the mouth, throat and gastro-intestinal tract.
Reagent B: Classified as being corrosive due to the level of sodium hydroxide and sodium hypochlorite present and will cause local damage in contact with tissue of the eyes and skin. Inhalation of spray or mist will irritate the respiratory system and ingestion will damage the linings of the mouth, throat and gastro-intestinal tract. Inhalation of spray or mist will irritate the respiratory system and ingestion may damage the linings of the mouth, throat and gastro-intestinal tract.

Nitrate/Nitrite test kit
Reagent A: Nitrate pro test kit - Reagent A is classified as being corrosive due to the level of Sulphuric acid present.

pH/Alkalinity test kit
KH indicator: It is classified as being harmful due to the levels present of ethylene glycol. Ethylene glycol when ingested can mimic alcohol inebriation followed by nausea, vomiting, abdominal pain, weakness, muscle tenderness, respiratory failure, convulsions, cardiovascular collapse, pulmonary edema, hypocalcemic tetany, and severe metabolic acidosis. Without treatment, death may occur in 8 to 24 hours. Victims who survive the initial toxicity period usually develop renal failure along with brain and liver damage. Exposure to and/or consumption of alcohol may increase toxic effects.
A compound classified as being corrosive is also present at very low concentrations (<1%) within the KH indicator and may cause irritation when in contact with eyes and skin. Inhalation may irritate the respiratory system and if ingested, irritation of the linings of the mouth, throat and gastro-intestinal tract could occur.

SECTION 12: Ecological information

12.1 Toxicity

Product/substance name	Toxicity to fish
Sulphanilic acid	LC50/96h (Fathead Minnow) 100.4 mg/L

12.2 Persistence and Degradability
Compounds present in Nitrite/ Nitrate Reagent B are known to be persist in the environment.

12.3 Bioaccumulative potential
Zinc powder in Nitrite/Nitrate test kit - Reagent B, can accumulate in plants and marine organisms.

12.4 Mobility in soil
The Zinc powder in Nitrite/Nitrate test kit - Reagent B is not soluble under normal environmental conditions, however processing the product or extended exposure in aquatic environment may lead to zinc compounds in bioavailable forms. In soil, zinc is moderately mobile.

12.5 Results of PBT and vPvB assessment
Not available

12.6 Other adverse effects
Zinc powder in Nitrite/Nitrate test kit - Reagent B, has been shown to be hazardous to aquatic organisms.
Nitrite/Nitrate test kit - Reagent A is strongly acidic so may be inadvertently hazardous to aquatic organisms.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Packing
Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport information

14.1 Un number

ADR/RID: 3316 IMDG: 3316 IATA: 3316 DOT (US): 3316

14.2 UN proper shipping name

ADR/RID: CHEMICAL KIT

IMDG: CHEMICAL KIT

IATA: Chemical kit

DOT (US): Chemical kit

14.3 Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9 DOT (US): 9

14.4 Packing group

ADR/RID: II IMDG: - IATA: II DOT (US): II

14.5 Environmental hazard

ADR/RID: - IMDG: - IATA: - DOT (US): -

14.6 Special precautions for user

Not available

14.7 Transport to bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available

SECTION 15: Regulatory information

This SDS complies with the following requirements of:
EU Regulation (EC) No.1907/2006 (REACH) including amendments
Regulation (EC) No.1272/2008 (CLP)
29 CFR 1910.1200 (OSHA HCS)

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA inventory
Sulphuric acid CAS 7664-93-9
Sulphanilic acid CAS 121-57-3
Zinc CAS 7440-66-6
Ammonium molybdate(VI) CAS 13106-76-8
Picric acid CAS 88-89-1

15.1 Chemical safety assessment

Not available

SECTION 16: Other information

NFPA Rating:

Ammonia pro test kit

Reagent A	Reagent B	Reagent C
Health hazard: 0 Fire Hazard: 0 Reactivity Hazard: 0	Health hazard: 3 Fire Hazard: 0 Reactivity Hazard: 0	Health hazard: 0 Fire Hazard: 0 Reactivity Hazard: 0

Nitrate/Nitrite test kit

Reagent A	Reagent B	Reagent C
Health hazard: 3 Fire Hazard: 0 Reactivity Hazard: 0	Health hazard: 2 Fire Hazard: 0 Reactivity Hazard: 0	Health hazard: 0 Fire Hazard: 0 Reactivity Hazard: 0

pH/Alkalinity test kit

pH indicator	KH indicator
Health hazard: 0 Fire Hazard: 0 Reactivity Hazard: 0	Health hazard: 2 Fire Hazard: 0 Reactivity Hazard: 0

Full text of Hazards Statements referred to in sections 2 and 3:
Expl. - Explosive
Flam. Liq. - Flammable liquid
Met. Corr. - Substance or mixture corrosive to metals
Acute Tox. - Acute toxicity
Skin Corr. - Skin corrosion
Eye Irrit.- Eye irritation
STOT SE - Specific target organ toxicity — single exposure
Aquatic Acute - Hazardous to the aquatic environment
Aquatic Chronic - Hazardous to the aquatic environment
H225: Highly flammable liquid and vapour.
H226: Flammable liquid and vapour.
H290: May be corrosive to metals.
H301: Toxic if swallowed.
H302: Harmful if swallowed.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H331: Toxic if inhaled.
H335: May cause respiratory irritation.
H400: Very toxic to aquatic life.
H402: Harmful to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H411: Toxic to aquatic life with long lasting effect.
EUH031: Contact with acids liberates toxic gas.

Training advice: Before using/handling the product one must read carefully present SDS.

Key Legend Information:
CAS - Chemical Abstract Service
ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NTP - National Toxicology program
IARC - International Agency for Research on Cancer

N/A - Not available

H-statements - Hazard statements

TLV - Threshold Limit Value

TWA - Time-weighted average

STEL - Short-Term Exposure Limit

CSA - Chemical safety assessment

TSCA - United States Toxic Substances Control Act Inventory

Date of issue: 09/08/2016

Version no.: 1